



DEPARTMENT OF WATER RESOURCES
EXAMINATION ANNOUNCEMENT



The Department of Water Resources offers Equal Opportunity for all regardless of race, color, creed, national origin, ancestry, sex, marital status, disability, religious or political affiliation, age, or sexual orientation.

It is an objective of the State of California to achieve a drug-free State workplace. Any applicant for State employment will be expected to behave in accordance with this objective because the use of illegal drugs is inconsistent with the law of the State, the rules governing civil service and the special trust placed in public servants.

SENIOR HYDROELECTRIC POWER UTILITY ENGINEER (SPECIALIST)
OPEN/NON-PROMOTIONAL

FINAL FILING DATE	December 31, 2008
	Application forms (STD 678) must be POSTMARKED no later than the final filing date. Applications postmarked, personally delivered, or received via interoffice mail after the final filing date will not be accepted for any reason . FAXED OR EMAILED APPLICATIONS WILL NOT BE ACCEPTED.
WHO SHOULD APPLY	This is an open/non-promotional examination. Applications will not be accepted on a promotional basis. Career Credits will be granted in this examination.
HOW TO APPLY	Examination Applications (STD 678) may be mailed or filed in person to: <div>MAILING ADDRESS: Department of Water Resources P.O. Box 942836 Sacramento, CA 94236-0001</div> <div>FILE IN PERSON: Department of Water Resources 1416 9th Street, Room 320 Sacramento, CA 95814</div> DO NOT SEND APPLICATIONS TO THE STATE PERSONNEL BOARD OR DEPARTMENT OF WATER RESOURCES' FIELD OFFICES. Applications are available at Department of Water Resources' (DWR) offices, the DWR website: www.water.ca.gov/jobs/currentexams.cfm , local office of the Employment Development Department, the State Personnel Board (SPB), and the SPB website: www.spb.ca.gov/jobs .
CROSS FILING INFORMATION	If you meet the entrance requirements for this classification and for the Senior Hydroelectric Power Utility Engineer (Supervisor) scheduled with the same final filing date, you may file for two or more examinations on a single application. Please indicate the classification(s) you are applying for.
IDENTIFICATION REQUIRED	Accepted applicants are required to bring either a photo identification card or two forms of signed identification to each phase of the examination.
SPECIAL TESTING ARRANGEMENTS	If you have a disability and need special testing arrangements, mark the appropriate box in Question 2 of the "Application for Examination". You will be contacted to make specific arrangements.
SALARY RANGE	\$8122 - \$9870
ELIGIBLE LIST INFORMATION	An open/non-promotional eligible list will be established for the Department of Water Resources. The list will be abolished 12 months after it is established unless the needs of the service and conditions of the list warrant a change in this period.
EXAMINATION DATES	The entire examination will consist of a Qualifications Appraisal Interview . It is anticipated the interviews will be held during January/February 2009 .
REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION	NOTE: All applicants must meet the minimum qualifications for this examination by the final filing date, December 31, 2008 . Qualifying experience may be combined on a proportionate basis if the requirements stated below include more than one pattern and are distinguished as "Either" I, "or" II, "or" III, etc. For example, candidates possessing qualifying experience amounting to 50% of the required time of Pattern I, and additional experience amounting to 50% of the required time of Pattern II, may be admitted to an examination as meeting 100% of the overall experience requirement.
MINIMUM QUALIFICATIONS	Graduation from college with major work in electrical, electronic, mechanical, or civil engineering. (Additional qualifying experience may be substituted for the required education on a year-for-year basis.) AND Either I Two years of experience performing the duties of an Associate Hydroelectric Power Utility Engineer in California state service. Or II Five years of progressively responsible engineering experience in the electric utilities field and/or in the operation and maintenance of pumping and generating equipment, at least two years of which shall have been comparable in responsibility to that of an Associate Hydroelectric Power Utility Engineer.

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

SENIOR HYDROELECTRIC POWER UTILITY ENGINEER (SPECIALIST) OPEN/NON-PROMOTIONAL		BULLETIN RELEASE DATE: December 1, 2008 FINAL FILING DATE: December 31, 2008	
POSITION DESCRIPTION	This is the staff specialist level responsible for conducting assignments which are difficult, controversial, require a high level of specialized expertise or unique technical knowledge and skills relating to: <ul style="list-style-type: none">• Analysis of electric resource requirement and/or making recommendations to management for specific arrangements for acquisitions of power supply or exchanges best suited for the operation of the State Water Project.• Negotiate with high level electric industry representatives for power and natural gas purchases, sales or exchange agreements.• Prepare documents and/or testimony regarding power related activities and present to regulatory agencies.• Provide guidance to field maintenance personnel. <p><i>Positions exist statewide with the Department of Water Resources.</i></p>		
EXAMINATION INFORMATION	This examination will consist of Qualifications Appraisal Interview - Weighted 100.00% . In order to obtain a position on the eligible list, a minimum rating of 70.00% must be attained in the interview. COMPETITORS WHO DO NOT APPEAR FOR THE INTERVIEW WILL BE DISQUALIFIED.		
SCOPE OF EXAMINATION	Qualifications Appraisal Interview – Weighted 100.00% <p>In addition to evaluating the competitors’ relative abilities as demonstrated by quality and breadth of experience, emphasis in the examining interview will be on measuring competitively, relative to job demands, each competitor’s:</p> <p>A. Knowledge of:</p> <ol style="list-style-type: none">1. Engineering theory, design and operation practices relating to power generation, transmission and distribution, resource planning and knowledge of power, and transmission and energy markets.2. Electric utility operation and management.3. Functions, responsibilities, and procedures of regulatory and government agencies including the Public Utilities Commission, the Federal Energy Regulatory Commission, and the California Energy Commission, in the electric utility field.4. Planning, design, construction, and the operation of major generating plants, power transmission systems and pumping plants.5. Methods of determining the optimum capacity and energy output of generating plants.6. Power marketing and economics, including the market for and value of electric power, methods of marketing power, and ancillary services, and assessing risks, design of power transmission markets and power transmission rates and agreements.7. Operating, maintaining and testing of electrical and mechanical equipment and systems for plants, switchyards, reservoir outlets and aqueduct control features.8. Environmental issues and policies.9. Unit operating and loading procedures and criteria.10. Standards of the American National Standards Institute, Institute of Electrical and Electronic Engineers, American Society of Mechanical Engineers, North American Energy Standards Board.11. Instrumentation and control circuitry and electrical protection.12. Servo systems and governors, bearings, lubrication, metal working, machining, welding, and non-destructive examination, alignment and balancing of rotating machinery including vibration measurement, methods of maintenance, repair, and testing, power system operation, control and studies, load flow, stability, and fault analyses. <p>B. Ability to:</p> <ol style="list-style-type: none">1. Analyze situations accurately and adopt an effective course of action.2. Prepare clear, concise, and comprehensive reports, memos, and other correspondence.3. Prepare procedures and manuals.4. Prepare feasibility studies.5. Interpret, prepare and revise electrical and mechanical drawings and schematics and relay and control logic diagrams.6. Assist and advise others on maintenance and repair procedures, materials, and tools.7. Negotiate, administer, and coordinate contracts, such as for maintenance, repair, testing, and consultation.8. Conduct and coordinate special test activities on mechanical and electrical equipment.9. Use personal computers.		
ADDITIONAL DESIRABLE QUALIFICATIONS	Possession of a valid certificate of registration as a professional engineer.		
VETERANS PREFERENCE	Veterans Preference Credit will not be granted in this examination.		
GENERAL INFORMATION			
<p>The Department of Water Resources (DWR) reserves the right to revise the examination plan to better meet the needs of the service if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service laws and rules and all competitors will be notified.</p> <p>For any examination without a written feature it is the candidate's responsibility to contact the Selection Services Section of the Department of Water Resources, (916) 653 - 4838 three weeks after the final filing date if he/she has not received a progress notice.</p> <p>Applications are available at DWR offices, DWR website: www.water.ca.gov/jobs/currentexams.cfm , local office of the Employment Development Department, the State Personnel Board, and the SPB web site: www.spb.ca.gov/jobs .</p> <p>If you meet the requirements stated on the reverse, you may take this examination, which is competitive. Possession of the entrance requirement does not assure a place on the eligible list. Your performance in the examination described on this bulletin will be compared with the performance of the others who take this test, and all candidates who pass will be ranked according to their scores.</p> <p>General Qualifications: Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the classification.</p> <p>Examination Locations: When a written test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant. Ordinarily, qualifications appraisal interviews are scheduled in Sacramento and Los Angeles. However, locations of interviews may be limited or extended as conditions warrant.</p> <p>If a candidate’s notice of oral interview fails to reach him/her prior to the day of the interview due to a verified postal error, he/she will be rescheduled upon written request.</p> <p>Eligible Lists: Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) subdivisional promotional, 2) departmental promotional, 3) multidepartmental promotional, 4) servicewide promotional, 5) departmental open, 6) open eligible list. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in one to four years unless otherwise stated on this bulletin. In the case of continuous testing examinations, names are merged into the appropriate lists in order of final test scores (except as modified by veterans preference credits) regardless of the date of the test, and the resulting eligible lists will be used only to fill vacancies in the area shown on the bulletin.</p> <p>TDD is Telecommunications Device for the Deaf and is reachable only from phones equipped with a TDD Device. TDD: (916) 653-1804; California Relay Telephone Service for the deaf or hearing impaired: From TDD phones: 1-800-735-2929; From voice phones: 1-800-735-2922</p> <p>For information regarding this examination, please contact Stephanie Mendiola at (916) 651 - 6930.</p> <p>O N/P (Rev. 11/08)</p> <p>(SM)</p>			
SENIOR HYDROELECTRIC POWER UTILITY ENGINEER (SPECIALIST) HO49 - 3674		8WR71-01	